### PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2063012111			ent's file reference	FOR FURTHER ACTIO	HER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/EP 03/11505						Priority date (day/month/year) 11.02.2003		
1	International Patent Classification (IPC) or both national classification and IPC C08G65/00							
	Applicant BASF CORPORATION et al.							
1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2.	This	REP	ORT consists of a total o	of 8 sheets, including this co	ver sheet.			
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
3.	This report contains indications relating to the following items:							
	i	$\boxtimes$	Basis of the opinion					
	H		Priority					
	Ш		Non-establishment of o	pinion with regard to novelty	, inventive st	ep and industrial applicability		
	IV	⊠	Lack of unity of invention					
	V	☒		nder Rule 66.2(a)(ii) with reg ons supporting such stateme		y, inventive step or industrial applicability;		
	VI	$\boxtimes$	Certain documents cite	d				
	VII	$\boxtimes$	Certain defects in the in	nternational application				
	VIII   Certain observations on the international application							
Date	of sub	missio	n of the demand	Date	of completion	of this report		
29.0	29.04.2004				7.2004			
Name prelin	e and r	nailing exami	address of the internationa ning authority:	Auth	orized Officer	alizense Polonzoar.		
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				6 epmu d	mm, B ohone No. +49	89 2399-7158		

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. F

PCT/EP 03/11505

I. B	asis	of	the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages							
	1-1	4	as originally filed						
	Cla	ims, Numbers							
	1-4		as originally filed						
2.	Wit lanç	h regard to the <b>langu</b> guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.						
	The	These elements were available or furnished to this Authority in the following language: , which is:							
		0 0	anslation furnished for the purposes of the international search (under Rule 23.1(b)). lication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).						
3. With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international applicat international preliminary examination was carried out on the basis of the sequence listing:									
		contained in the inte	rnational application in written form.						
		filed together with th	e international application in computer readable form.						
☐ furnished subsequently to this Authority in written form.									
☐ furnished subsequently to this Authority in computer readable form.									
The statement that the subsequently furnished written sequence listing does not go beyon in the international application as filed has been furnished.									
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.						
4.	The	amendments have re	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this						
6.	Add	itional observations, i	f necessary:						

IV.	Lack	of	unity	of inv	ention/
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1.	ln r	In response to the invitation to restrict or pay additional fees, the applicant has:					
		restricted the claims.					
	$\boxtimes$	paid additional fees.	paid additional fees.				
		paid additional fees under pro	test.				
		neither restricted nor paid additional fees.					
2.	⊠	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.					
3.	This	s Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3					
		complied with.					
		not complied with for the follow	wing re	easons:	•		
4.		nsequently, the following parts of the international application were the subject of international preliminary umination in establishing this report:					
	$\boxtimes$	all parts.					
		the parts relating to claims No	s				
٧.	Rea cita	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; tations and explanations supporting such statement					
1.	Stat	tement					
	Nov	Novelty (N)		Claims Claims	1-40		
	Inventive step (IS)		Yes: No:	Claims Claims	1-40		
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-40		
2.	Cita	tions and explanations					

see separate sheet

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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#### VI. Certain documents cited

- Certain published documents (Rule 70.10) and /or
- Non-written disclosures (Rule 70.9)see separate sheet

### VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

### Relevant documents:

- D1: US-B-6 362 1261 (GROSCH GEORG HEINRICH ET AL) 26 March 2002 (2002-03-26)
- D2: EP-A-0 589 635 (ARCO CHEM TECH) 30 March 1994 (1994-03-30)
- D3: DE 199 53 546 A (BAYER AG) 10 May 2001 (2001-05-10)
- D4: US-A-5 099 075 (REISCH JOHN W ET AL) 24 March 1992 (1992-03-24)
- D5: WO 01/04180 A (DOW CHEMICAL CO) 18 January 2001 (2001-01-18)
- D6: US-A-3 900 518 (MILGROM JACK) 19 August 1975 (1975-08-19)
- D7: WO 03/076488 A (BASF AG; BOHRES EDWARD (DE); HARRE KATHRIN (DE); BAUM EVA (DE); RUPPE) 18 September 2003 (2003-09-18)
- D8: WO 02/081423 A (BOCHNITSCHEK WERNER; GROSCH GEORG HEINRICH (DE); ZIRNSTEIN MICHAEL (D) 17 October 2002 (2002-10-17)
- D9: DE 100 01 779 A (BASF AG) 19 July 2001 (2001-07-19)
- DE 199 49 092 A (BASF AG) 19 April 2001 (2001-04-19) D10:
- DE 198 40 846 A (BASF AG) 9 March 2000 (2000-03-09) D11:
- US-B-6 303 5331 (GROSCH GEORG HEINRICH ET AL) 16 D12: October 2001 (2001-10-16)

#### 1. Unity (Art. 3, section 4, item (iii) PCT)

The International Preliminary Examining Authority agrees with the objection put forward by the International Search Authority as to lack of unity (Article 3, section 4, item (iii) PCT), the reasons for the objection being as follows: The present application covers totally three inventions I to III corresponding to the following groups of claims:

claims 1 to 19 and 30 to 40 corresponding to a method for removal of a double metal cyanide catalyst based on addition of a polymeric acid:

Invention II: claims 20 and 21 corresponding to a method for removal of a double metal cyanide catalyst based on addition of a polymeric amine; Invention III: claims 22 to 29 corresponding to a method for removal of a multi metal cyanide catalyst based on addition of an adsorbent.

The only group of features which is shared by these three groups of claims is the presence of a polyol and a metal cyanide catalyst. This "concept" is, however, clearly anticipated by each of the above cited prior art documents D1 or D2 (see the considerations in section 2. below).

Any common, novel and inventive concept linking together the independent claims according to said four inventions I to III is therefore not recognizable. Consequently, the present application lacks unity.

In the European regional stage, if any, the applicant will be asked to state upon which invention further prosecution of this application should be based and to limit the application accordingly. Subsequently, other inventions are to be excised from the claims, description and drawings. The subject-matter to be excised may be made the subject of one or more divisional applications.

#### Novelty (Art. 33 (2) PCT) 2.

Each of documents D1 or D2 discloses a method for removal and reclamation of a double metal cyanide catalyst from a polyol as specified in detail in present main claim 1 (see D1, col. 2, I. 6 to col. 4, I. 59; working examples 1 to 37; claims 1 to 16 and abstract; see D2, p. 2, I. 50 to p. 3, I. 53; working examples 1 to 15; claims 1 to 11 and abstract, respectively. For any further relevant passages, see the corresponding International Search Report in detail).

Consequently, each of documents D1 or D2 anticipates the subject matter of present claim 1.

The same considerations also relate to the additional features of the present claims 2 to 19 and 30 to 40, when taking into account the full disclosure of each of documents D1 or D2. Furthermore, similar considerations also relate to the additional features of the present claims 20 and 21, when taking into account the full disclosure of each of documents D5 or D6. Furthermore, similar considerations also relate to the additional features of the present claims 22 to 29, when taking into account the full disclosure of each of documents D8 to D12, respectively.

Therefore the subject matter of present application is not new in view of the disclosure of each of documents D1 or D2 (= invention I), documents D5 or D6 (= invention II) and documents D8 to 12 (= invention III), respectively.

## 3. Inventive Step (Art. 33 (3) PCT)

In view of the above objection, the discussion of the presence of an inventive step is postponed to a later stage of the examination. Providing an amended main claim which meets the requirements of Art. 33 (2) PCT, the applicant should relate the distinguishing feature to a surprising (unexpected) technical effect or make credible or plausible that the distinguishing feature is not derivable from the prior art teaching (Art. 33 (3) PCT).

#### 4. Miscellaneous

In order to support the understanding and legibility of the claimed subject

matter, the document D3 should be identified in the description additionally in the European regional stage, if any, and the relevant background art disclosed therein should be briefly discussed.

The attention of the applicant is drawn to the fact, that document D7 will be relevant for the assessment of novelty in regard to the subject matter of invention III under the Arts. 54 (3, 4) EPC in the subsequent European regional stage, if any.

When filing amendments, any undue extension of the scope of the application should be avoided.